

SEARCH REQUEST FORM/ED

Scientific and Technical Information Center

Requester's Full Name: San Ming Hui Examiner # 78222 Date: 2/7/01
 Art Unit: 1617 Phone Number 305-1002 Serial Number: 091330629
 Mail Box and Bldg/Room Location: Room 110 Results Format Preferred (circle): PAPER (DISK) E-MAIL

7819
 If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Method of HIV and HPV prophylaxis
 Inventors (please provide full names): Claudia Cherney Stewart

Earliest Priority Filing Date: 6/11/98

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

please search claim 1 - 14. The use of the compounds
 for preventing HIV infection

Thanks,
 Sam

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Type of Search

Vendors and cost where applicable

Searcher: Sheppard NA Sequence (#) _____ STN _____
 Searcher Phone #: 305-1444 AA Sequence (#) _____ Dialog _____
 Searcher Location: _____ Structure (#) _____ Questel/Orbit _____
 Date Searcher Picked Up: _____ Bibliographic _____ Dr. Link _____
 Date Completed: 2/18/01 Litigation _____ Lexis/Nexis _____
 Searcher Prep & Review Time: _____ Fulltext _____ Sequence Systems _____
 Clerical Prep Time: _____ Patent Family _____ WWW/Internet _____
 Online Time: _____ Other _____ Other (specify) _____

Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1 BRS	3	5049557.pn.	USPAT; EPO; JPO; Derwent; IBM TDB	2001/02/20 18:06			0
2 BRS	3	5142076.pn.	USPAT; EPO; JPO; Derwent; IBM TDB	2001/02/06 15:38			0
3 BRS	11201	stewart.in.	USPAT; EPO; JPO; Derwent; IBM TDB	2001/02/06 15:38			0
4 BRS	141689	cobalt	USPAT; EPO; JPO; Derwent; IBM TDB	2001/02/06 15:47			0
5 BRS	173	stewart.in. and cobalt	USPAT; EPO; JPO; Derwent; IBM TDB	2001/02/06 15:39			0
6 BRS	5	(viral or virus\$) and (stewart.in. and cobalt)	USPAT; EPO; JPO; Derwent; IBM TDB	2001/02/06 15:40			0
7 BRS	96924	viral or virus\$ or antivir\$	USPAT; EPO; JPO; Derwent; IBM TDB	2001/02/20 13:16			0
8 BRS	131	(viral or virus\$ or antivir\$) same cobalt	USPAT; EPO; JPO; Derwent; IBM TDB	2001/02/06 15:50			0
9 BRS	22724	HIV	USPAT; EPO; JPO; Derwent; IBM TDB	2001/02/06 15:50			0
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11 BRS	3	5756491.pn.	USPAT; EPO; JPO; Derwent; IBM TDB	2001/02/06 16:25			0
12 BRS	48	dori.in.	USPAT; EPO; JPO; Derwent; IBM TDB	2001/02/20 13:16			0
13 BRS	21	cobalt and dori.in.	USPAT; EPO; JPO; Derwent; IBM TDB	2001/02/20 13:16			0
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17 BRS	65	cobalt and 514/185.ccls.	USPAT; EPO; JPO; Derwent; IBM TDB	2001/02/20 18:07			0

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FILE COVERS 1967 - 18 Feb 2001 VOL 134 ISS 9
 FILE LAST UPDATED: 16 Feb 2001 (20010216/ED)

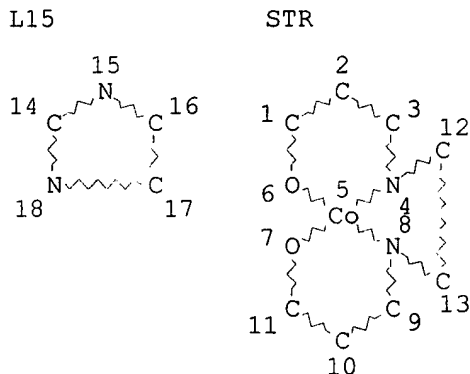
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NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE
 L17 147 SEA FILE=REGISTRY SSS FUL L15
 L20 60 SEA FILE=HCAPLUS ABB=ON PLU=ON L17
 L22 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L20(L) (HIV? OR ?IMMUNODE? OR ?VIRUS? OR ?VIRAL?)

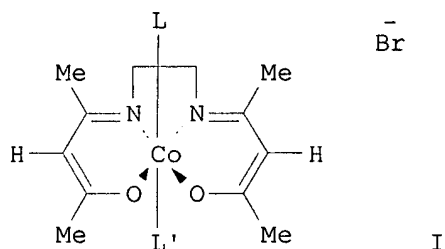
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L22 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 2001:63823 HCAPLUS X
 TITLE: Use of cobalt chelates for treating or preventing virus infection
 INVENTOR(S): Silverstein, Saul J.; Lium, Erik; Schwartz, Jennifer
 PATENT ASSIGNEE(S): The Trustees of Columbia University In the City of New York, USA
 SOURCE: PCT Int. Appl., 93 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001005396	A1	20010125	WO 2000-US18488	20000706

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1999-144346 19990716
 GI



AB A method of treating a subject infected with a virus or a method of preventing viral infection of a subject comprises administering to the subject an effective amt. of a compd. I (L=L'= 2-methylimidazole).

IT 149754-11-0

RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (cobalt chelate for treating or preventing virus infection)

REFERENCE COUNT: 3

REFERENCE(S): (1) Dori; US 5049557 A 1991 HCAPLUS
 (2) Dori; US 5756491 A 1998 HCAPLUS
 (3) Meade; US 6008190 A 1999 HCAPLUS

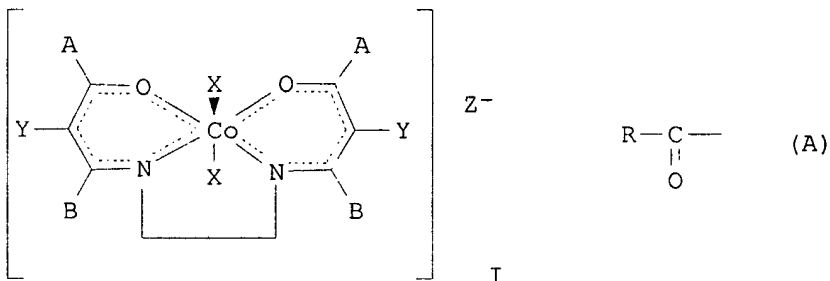
L22 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1999:795608 HCAPLUS
 DOCUMENT NUMBER: 132:30815
 TITLE: Use of metallo-organic cobalt compounds for prevention and treatment of HIV and HPV
 INVENTOR(S): Stewart, Claudia Cherney
 PATENT ASSIGNEE(S): Rodex Pharmaceutical Corp., USA
 SOURCE: PCT Int. Appl., 41 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9963947	A2	19991216	WO 1999-US13562	19990611
WO 9963947	A3	20000217		

W: AU, CA, IL, JP
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.: US 1998-89250 19980611
OTHER SOURCE(S): MARPAT 132:30815
GI



- AB Human immunodeficiency virus and/or human Papillomavirus infection can be prevented by the topical application of metallo-org. cobalt compds. I to the site of infection; wherein each A may be the same or different and is an alkyl group, a Ph group or a substituted deriv. of a Ph group; wherein each Y may be the same or different and is hydrogen, an unbranched alkyl group, a halide or a group having the structure (a) wherein R is hydrogen, an alkoxide group, an alkyl group, or OH; wherein each B may be the same or different and each is hydrogen or an alkyl group; wherein each X may be the same or different and each is a water sol. group having weak to intermediate ligand field strength; and Z- is a sol., pharmaceutically acceptable neg. ion. Metallo-org. cobalt compds. may also be used to disinfect liqs. which contain human immunodeficiency virus and/or human Papillomavirus. The cobalt II complexes were prepd. by mixing equimolar amts. of N,N'-bisethylenediimine ligand followed by the oxidn. Antiviral efficacy of the compds. was shown.

IT 252332-50-6P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(use of metallo-org. cobalt compds. for prevention and treatment of HIV and HPV)

L22 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1999:722845 HCAPLUS

DOCUMENT NUMBER: 131:332086

TITLE: Method of herpes simplex virus prophylaxis using a topical metallorganic cobalt compound

INVENTOR(S): Bourne, Nigel; Stanberry, Lawrence R.

PATENT ASSIGNEE(S): Children's Hospital Research Foundation, USA

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9956552	A1	19991111	WO 1999-US10091	19990506

W: AU, CA, IL, JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE

AU 9938911 A1 19991123 AU 1999-38911 19990506

EP 1075186 A1 20010214 EP 1999-921794 19990506

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

PRIORITY APPLN. INFO.:

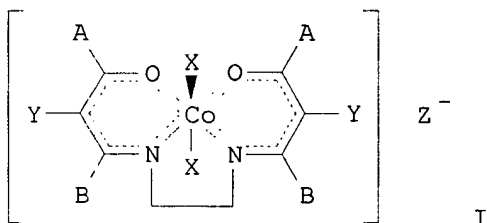
US 1998-84448 19980506

WO 1999-US10091 19990506

OTHER SOURCE(S):

MARPAT 131:332086

GI



AB Herpes virus infection can be prevented by the topical application of metallorg. cobalt compds. I [A = alkyl, Ph, substituted deriv. of Ph; Y = H, unbranched alkyl, halide, RC(O) (R = H, alkoxide, alkyl, OH); B = H, alkyl; X = water sol. group with weak to intermediate ligand field strength; Z- = sol. pharmaceutically acceptable neg. ion] to the site of infection. Metalloorg. cobalt compds. may also be used to disinfect liqs. which contain herpes virus.

IT 149754-11-0P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(metallorg. cobalt compd. for herpes simplex **virus** prophylaxis)

IT 149754-14-3 149786-30-1 149961-90-0

150131-27-4

RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(metallorg. cobalt compd. for herpes simplex **virus** prophylaxis)

REFERENCE COUNT:

1

REFERENCE(S):

(1) Dori; US 5756491 A 1998 HCAPLUS

L22 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:392088 HCAPLUS

DOCUMENT NUMBER: 129:23421

TITLE: Antiviral cobalt-organic compound complexes

INVENTOR(S): Dori, Zvi

PATENT ASSIGNEE(S): Chai-Tech Corp., USA

SOURCE: U.S., 17 pp. Cont.-in-part of U. S. 5,142,076.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

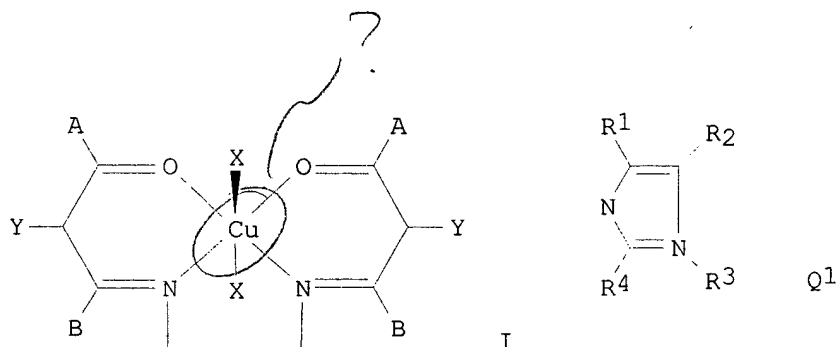
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FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

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US 5756491	A	19980526	US 1991-803259	19911205
US 4866054	A	19890912	US 1988-147713	19880125
US 4866053	A	19890912	US 1988-147714	19880125
US 5049557	A	19910917	US 1988-279417	19881202
US 5142076	A	19920825	US 1990-606070	19901030

WO 9311140 A1 19930610 WO 1992-US10764 19921204
W: AU, CA, JP
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
AU 9332491 A1 19930628 AU 1993-32491 19921204
EP 620821 A1 19941026 EP 1993-900156 19921204
EP 620821 B1 19990407
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
AT 178609 E 19990415 AT 1993-900156 19921204
AU 9722205 A1 19970731 AU 1997-22205 19970515
AU 688715 B2 19980312
PRIORITY APPLN. INFO.:
US 1986-862804 19860513
US 1986-862804 19860513
US 1988-147713 19880125
US 1988-147714 19880125
US 1988-279417 19881202
US 1990-606070 19901030
US 1991-803259 19911205
WO 1992-US10764 19921204
OTHER SOURCE(S): MARPAT 129:23421
GI



AB Compds. I [A = alkyl, Ph, substituted deriv. of Ph; Y = H, unbranched alkyl, halide, RC(O) (R = H, alkoxide, alkyl, OH); B = H, alkyl; Z- = sol. pharmaceutically acceptable neg. ion; X = axial ligand selected from Q1 (R1-R4 = H, Cl-4 alkyl, with proviso that R1-R4 are of sufficiently small size so as not to prohibit attachment of axial ligand to Co due to steric hindrance)] are disclosed. The compds., and compns. thereof, exhibit antiviral activity. The compds. may be used to treat e.g. a herpes virus infection.

IT 149754-11-0 149786-30-1 150131-27-4
207983-24-2 207983-25-3

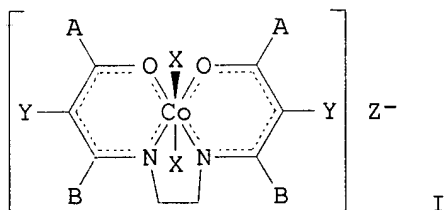
RL: BAC (Biological activity or effector, except adverse); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
(cobalt-org. compd. complexes for **antiviral** agents)

L22 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1994:525212 HCAPLUS
DOCUMENT NUMBER: 121:125212
TITLE: Antiviral compositions and method for their use
INVENTOR(S): Dubin, Melvin; Stewart, Claudia C.
PATENT ASSIGNEE(S): Redox Pharmaceutical Corp., USA
SOURCE: PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9413301	A1	19940623	WO 1993-US12164	19931214

W: AU, CA, JP
 RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
 AU 9458714 A1 19940704 AU 1994-58714 19931214
 PRIORITY APPLN. INFO.: US 1992-990759 19921215
 WO 1993-US12164 19931214
 GI



AB The present invention provides a method for treating chorioretinal disease and viral diseases caused by human herpes virus type 6 by administering to a subject and antichorioretinal infection amt. or an anti-HHV-6 virus infective amt. of I (A is Me or Ph, Y is H or Cl, Z is Cl or Br, X is ammonia or 2-methylimidazole, and B may be the same or different and each is H or an alkyl group).

IT 157106-84-8 157106-85-9
 RL: BIOL (Biological study)
 (chorioretinal disease or herpes **virus** 6 treatment with)

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=> select hit rn 122 1-5

E1 THROUGH E10 ASSIGNED

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 DICTIONARY FILE UPDATES: 16 FEB 2001 HIGHEST RN 321935-71-1

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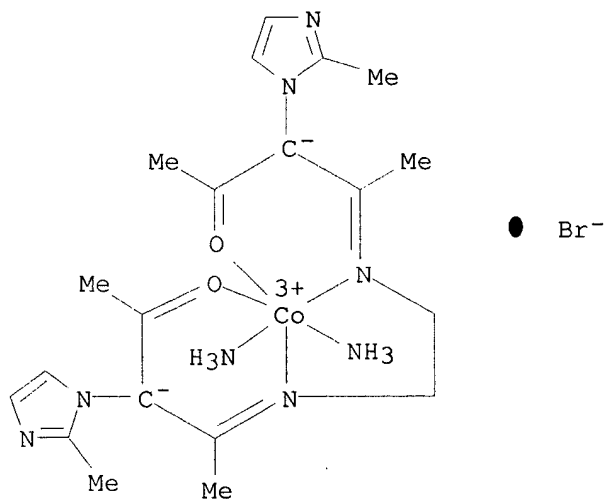
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 1 252332-50-6/BI
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=> d ide can l23 1-10

L23 ANSWER 1 OF 10 REGISTRY COPYRIGHT 2001 ACS
 RN 252332-50-6 REGISTRY
 CN Cobalt(1+), diammine[[4,4'-[1,2-ethanediyl]di(nitrilo-.kappa.N)]bis[3-(2-methyl-1H-imidazol-1-yl)-2-pentanonato-.kappa.O]](2-)]-, bromide,
 (OC-6-22)-(9CI) (CA INDEX NAME)
 MF C20 H32 Co N8 O2 . Br
 CI CCS
 SR CA
 LC STN Files: CA, CAPLUS, TOXLIT



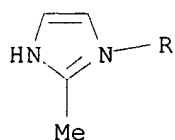
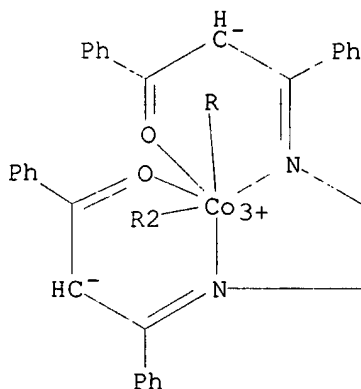
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REFERENCE 1: 132:30815

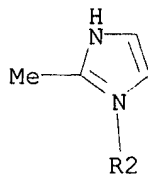
L23 ANSWER 2 OF 10 REGISTRY COPYRIGHT 2001 ACS
 RN 207983-25-3 REGISTRY
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 CI CCS

SR CA
LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

PAGE 1-A



PAGE 2-A



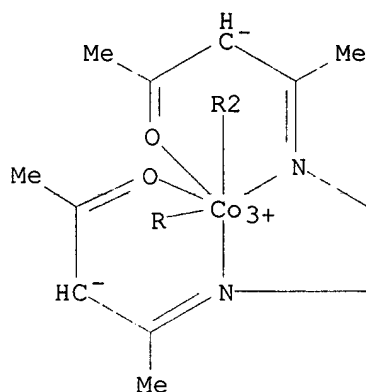
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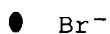
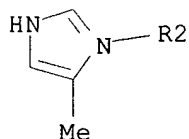
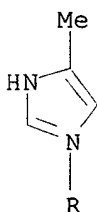
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L23 ANSWER 3 OF 10 REGISTRY COPYRIGHT 2001 ACS
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CI CCS
SR CA
LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

PAGE 1-A



PAGE 2-A

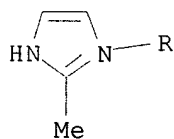
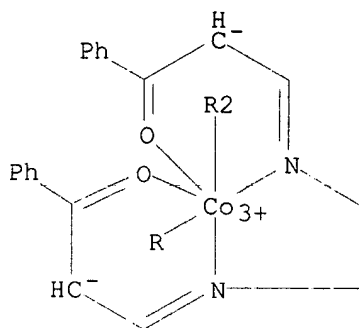


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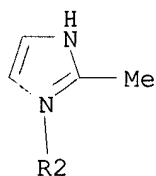
REFERENCE 1: 129:23421

L23 ANSWER 4 OF 10 REGISTRY COPYRIGHT 2001 ACS
RN 157106-85-9 REGISTRY
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(CA INDEX NAME)
MF C28 H30 Co N6 O2 . Cl
CI CCS
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

PAGE 1-A



PAGE 2-A


● Cl⁻

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 121:125212

L23 ANSWER 5 OF 10 REGISTRY COPYRIGHT 2001 ACS

RN 157106-84-8 REGISTRY

CN Cobalt(1+), [[4,4'-(1,2-ethanediyldinitrilo)bis[2-butanonato]](2-)-
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INDEX NAME)

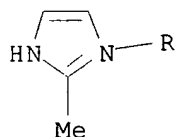
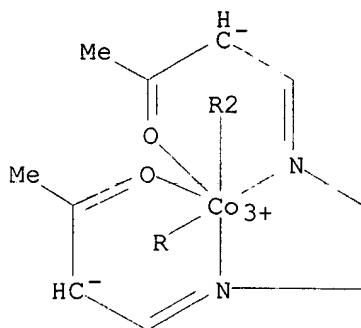
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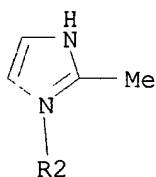
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LC STN Files: CA, CAPLUS, TOXLIT

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REFERENCE 1: 121:125212

L23 ANSWER 6 OF 10 REGISTRY COPYRIGHT 2001 ACS

RN **150131-27-4** REGISTRY

CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)di(nitrilo-.kappa.N)]bis[2-pentanonato-.kappa.O]](2-)]bis(1H-imidazole-.kappa.N3)-, chloride, (OC-6-33)- (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)di(nitrilo)]bis[2-pentanonato]](2-)-N,N',O,O']bis(1H-imidazole-N3)-, chloride, (OC-6-33)-

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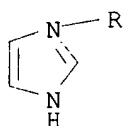
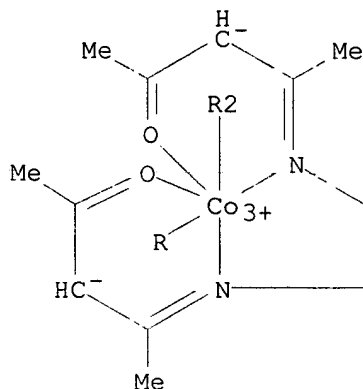
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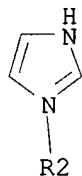
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REFERENCE 2: 129:132699

REFERENCE 3: 129:23421

REFERENCE 4: 126:348733

REFERENCE 5: 119:152069

L23 ANSWER 7 OF 10 REGISTRY COPYRIGHT 2001 ACS

RN 149961-90-0 REGISTRY

CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)di(nitrilo-.kappa.N)]bis[2-pentanonato-.kappa.O]](2-)]bis(4-methyl-1H-imidazole-.kappa.N1)-, bromide, (OC-6-22)-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)dinitrilo]bis[2-pentanonato]](2-)-N,N',O,O']bis(4-methyl-1H-imidazole-N1)-, bromide, (OC-6-22)-

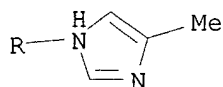
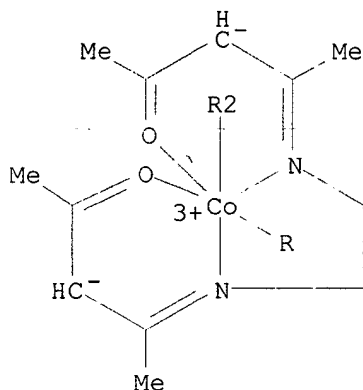
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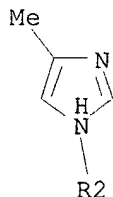
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LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

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REFERENCE 1: 131:332086

REFERENCE 2: 119:152069

L23 ANSWER 8 OF 10 REGISTRY COPYRIGHT 2001 ACS

RN 149786-30-1 REGISTRY

CN Cobalt(1+), [[4,4'-(1,2-ethanediylidinitrilo-.kappa.N)]bis[3-chloro-2-pentanonato-.kappa.O]](2-)]bis(1H-imidazole-.kappa.N3)-, bromide, (OC-6-33)-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cobalt(1+), [[4,4'-(1,2-ethanediylidinitrilo)]bis[3-chloro-2-pentanonato]](2-)-N,N',O,O']bis(1H-imidazole-N3)-, bromide, (OC-6-33)-

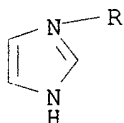
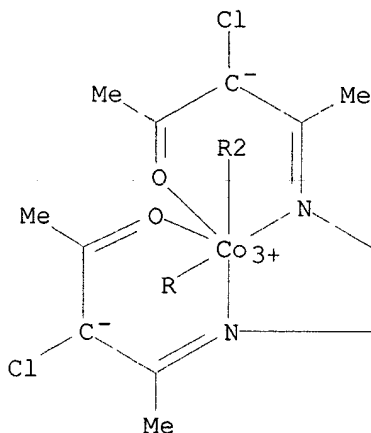
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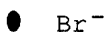
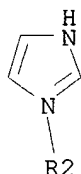
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LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

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3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:332086
REFERENCE 2: 129:23421
REFERENCE 3: 119:152069

L23 ANSWER 9 OF 10 REGISTRY COPYRIGHT 2001 ACS

RN 149754-14-3 REGISTRY

CN Cobalt(1+), [[3,3'-(1,2-ethanediyldi(nitrilo-.kappa.N)]bis[1-phenyl-1-butanonato-.kappa.O]](2-)]bis(2-methyl-1H-imidazole-.kappa.N3)-, bromide, (OC-6-33)-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cobalt(1+), [[3,3'-(1,2-ethanediyldinitrilo)bis[1-phenyl-1-butanonato]](2-)-N,N',O,O']bis(2-methyl-1H-imidazole-N3)-, chloride, (OC-6-33)-

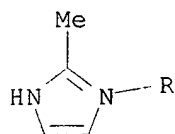
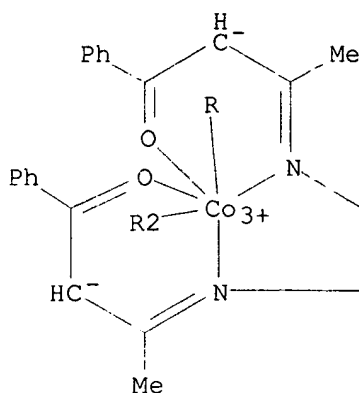
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CI CCS

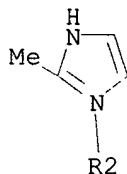
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LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

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● Cl⁻

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2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:332086

REFERENCE 2: 119:152069

L23 ANSWER 10 OF 10 REGISTRY COPYRIGHT 2001 ACS

RN 149754-11-0 REGISTRY

CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)di(nitrilo-.kappa.N)]bis[2-pentanonato-.kappa.O]](2-)]bis(2-methyl-1H-imidazole-.kappa.N3)-, bromide, (OC-6-33)-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)dinitrilo]bis[2-pentanonato]](2-)-N,N',O,O']bis(2-methyl-1H-imidazole-N3)-, bromide, (OC-6-33)-

MF C20 H30 Co N6 O2 . Br

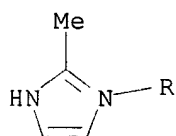
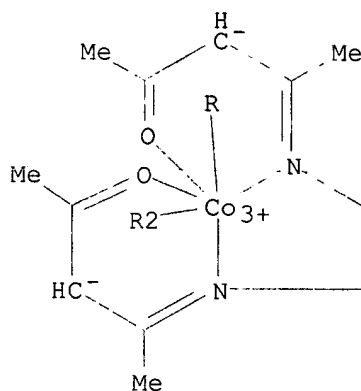
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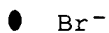
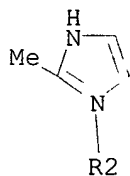
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CRN (210688-52-1)

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5 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:332086
REFERENCE 2: 129:23421
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FILE COVERS 1967 - 18 Feb 2001 VOL 134 ISS 9
FILE LAST UPDATED: 16 Feb 2001 (20010216/ED)

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TITLE: Cobalt complex virucides
INVENTOR(S): Dori, Zvi
PATENT ASSIGNEE(S): Chai-Tech Corp., USA
SOURCE: PCT Int. Appl., 72 pp.
          CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
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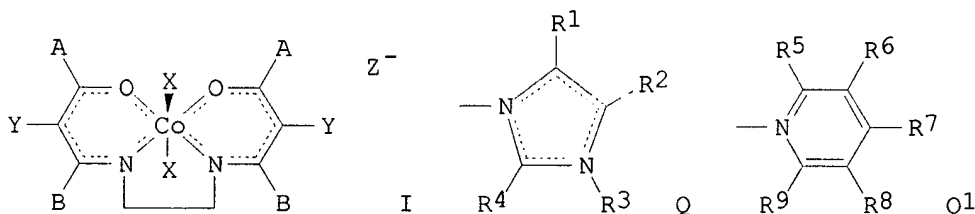
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US 1991-803259    19911205
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US 1988-147713    19880125
US 1988-147714    19880125
US 1988-279417    19881202
US 1990-606070    19901030
WO 1992-US10764   19921204

OTHER SOURCE(S):      MARPAT 119:152069
GI

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AB The Co complexes I [A = alkyl, (un)substituted Ph; Y = H, alkyl, halo, RCO; B = H, alkyl; Z⁻ = ion; X = Q, Q1; R = H, alkyl, alkoxy, OH; R1-4 = H, alkyl; R5-9 = electron-donor or electron-withdrawing group] are virucides, esp. for the herpes simplex, varicella-zoster, and Epstein-Barr viruses. The mean inhibitory concn. of I (A = B = Me, X = Q, Y = Cl, Z = Br, R1-4 = H) against the varicella-zoster virus in cultured human foreskin fibroblast cells was 0.01 mg/mL.

IT 149754-11-0 149754-12-1 149754-13-2
149754-14-3 149754-15-4 149786-30-1
149961-90-0 149989-24-2 150131-27-4
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
(virucide)

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STRUCTURE FILE UPDATES: 16 FEB 2001 HIGHEST RN 321935-71-1
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DICTIONARY FILE UPDATES: 16 FEB 2001 HIGHEST RN 321935-71-1

TSCA INFORMATION NOW CURRENT THROUGH July 8, 2000

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT
for details.

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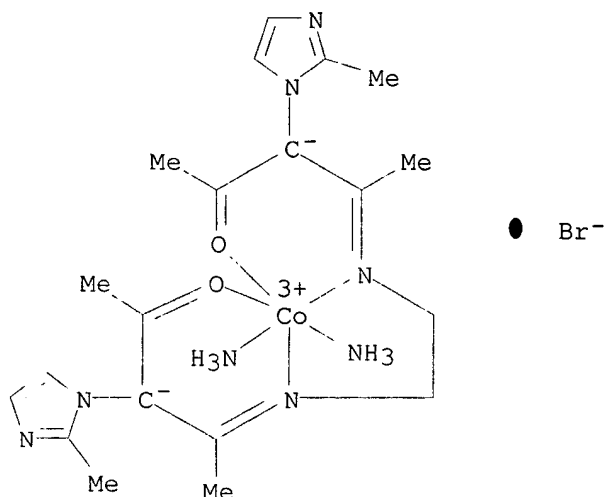
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 (OC-6-22)-(9CI) (CA INDEX NAME)
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 CI CCS
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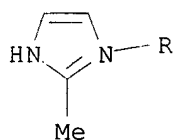
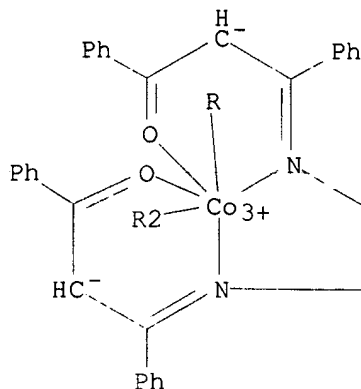


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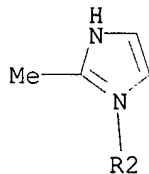
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 CI CCS
 SR CA
 LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

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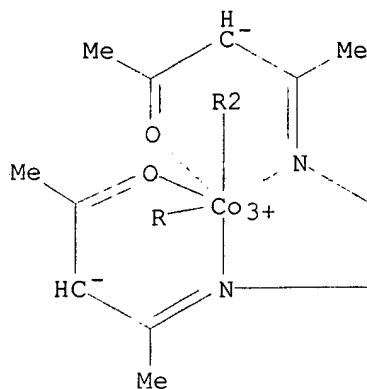
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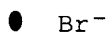
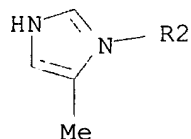
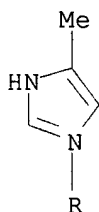
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L33 ANSWER 3 OF 14 REGISTRY COPYRIGHT 2001 ACS
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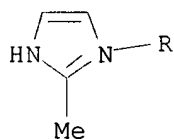
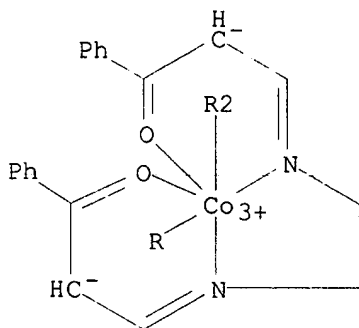


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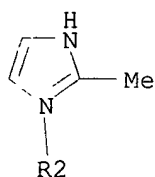
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L33 ANSWER 4 OF 14 REGISTRY COPYRIGHT 2001 ACS
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(CA INDEX NAME)
MF C28 H30 Co N6 O2 . Cl
CI CCS
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

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PAGE 2-A



● Cl⁻

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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 121:125212

L33 ANSWER 5 OF 14 REGISTRY COPYRIGHT 2001 ACS

RN **157106-84-8** REGISTRY

CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)dinitrilo]bis[2-butanonato]](2-)-
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INDEX NAME)

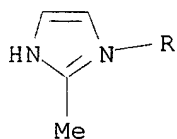
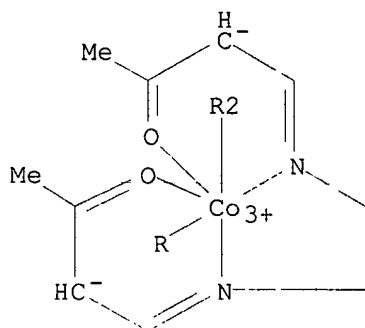
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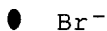
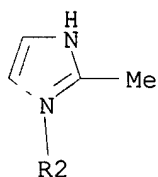
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LC STN Files: CA, CAPLUS, TOXLIT

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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 121:125212

L33 ANSWER 6 OF 14 REGISTRY COPYRIGHT 2001 ACS

RN 150131-27-4 REGISTRY

CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)di(nitrilo-.kappa.N)]bis[2-pentanonato-.kappa.O]](2-)]bis(1H-imidazole-.kappa.N3)-, chloride, (OC-6-33)- (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)dinitrilo]bis[2-pentanonato]](2-)-N,N',O,O']bis(1H-imidazole-N3)-, chloride, (OC-6-33)-

MF C18 H26 Co N6 O2 . Cl

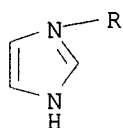
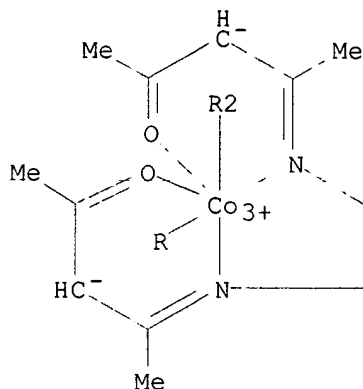
CI CCS

SR CA

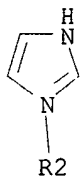
LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

CRN (210688-53-2)

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● Cl⁻

5 REFERENCES IN FILE CA (1967 TO DATE)
5 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:332086

REFERENCE 2: 129:132699

REFERENCE 3: 129:23421

REFERENCE 4: 126:348733

REFERENCE 5: 119:152069

L33 ANSWER 7 OF 14 REGISTRY COPYRIGHT 2001 ACS

RN 149989-24-2 REGISTRY

CN Cobalt(1+), [[4,4'-(1,2-ethanediyldinitrilo)bis[3-chloro-2-pentanonato]](2-)-N,N',O,O']bis(4-methyl-1H-imidazole-N1)-, bromide, (OC-6-22)- (9CI) (CA INDEX NAME)

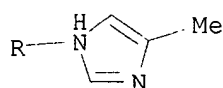
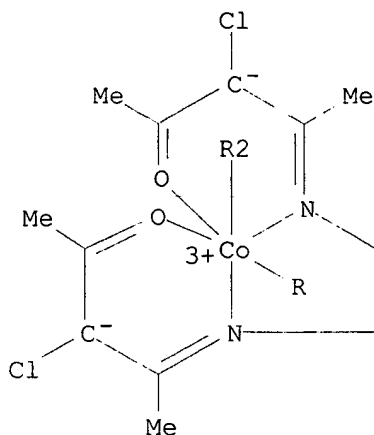
MF C20 H28 Cl2 Co N6 O2 . Br

CI CCS

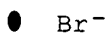
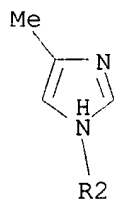
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LC STN Files: CA, CAPLUS, TOXLIT

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1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:152069

L33 ANSWER 8 OF 14 REGISTRY COPYRIGHT 2001 ACS

RN 149961-90-0 REGISTRY

CN Cobalt(1+), [[4,4'-[1,2-ethanediyldi(nitrilo-.kappa.N)]bis[2-pentanonato-.kappa.O]](2-)]bis(4-methyl-1H-imidazole-.kappa.N1)-, bromide, (OC-6-22)-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cobalt(1+), [[4,4'-(1,2-ethanediyldinitrilo)bis[2-pentanonato]](2-)-N,N',O,O']bis(4-methyl-1H-imidazole-N1)-, bromide, (OC-6-22)-

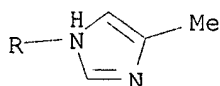
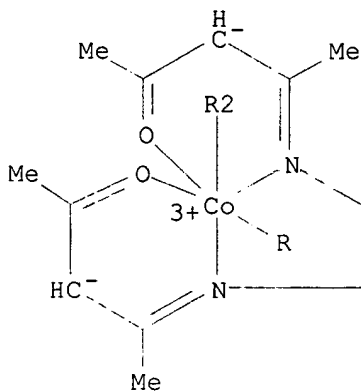
MF C20 H30 Co N6 O2 . Br

CI CCS

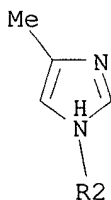
SR CA

LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

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2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:332086

REFERENCE 2: 119:152069

L33 ANSWER 9 OF 14 REGISTRY COPYRIGHT 2001 ACS

RN **149786-30-1** REGISTRY

CN Cobalt(1+), [[4,4'-[1,2-ethanediyl]di(nitrilo-.kappa.N)]bis[3-chloro-2-pentanonato-.kappa.O]](2-)]bis(1H-imidazole-.kappa.N3)-, bromide, (OC-6-33)-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)dinitrilo]bis[3-chloro-2-pentanonato]](2-)-N,N',O,O']bis(1H-imidazole-N3)-, bromide, (OC-6-33)-

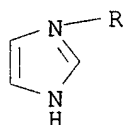
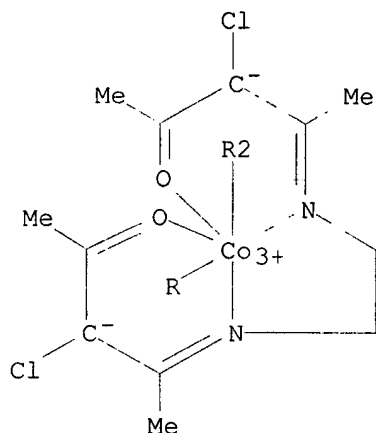
MF C18 H24 Cl2 Co N6 O2 . Br

CI CCS

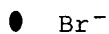
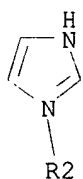
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LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

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3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:332086

REFERENCE 2: 129:23421

REFERENCE 3: 119:152069

L33 ANSWER 10 OF 14 REGISTRY COPYRIGHT 2001 ACS

RN 149754-15-4 REGISTRY

CN Cobalt(1+), [[4,4'-(1,2-ethanediyldinitrilo)bis[2-pentanonato]](2-)-N,N',O,O']bis(2-ethyl-1H-imidazole-N3)-, chloride, (OC-6-33)-(9CI) (CA INDEX NAME)

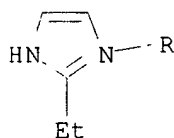
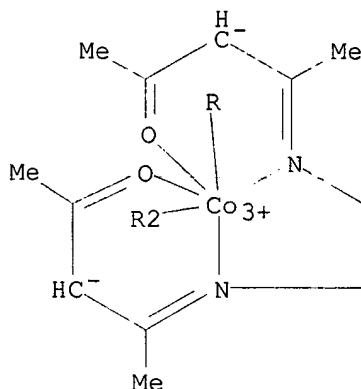
MF C22 H34 Co N6 O2 . Cl

CI CCS

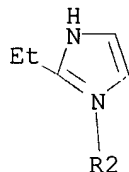
SR CA

LC STN Files: CA, CAPLUS, TOXLIT

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● Cl⁻

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:152069

L33 ANSWER 11 OF 14 REGISTRY COPYRIGHT 2001 ACS

RN 149754-14-3 REGISTRY

CN Cobalt(1+), [[3,3'-(1,2-ethanediyl)di(nitrilo-.kappa.N)]bis[1-phenyl-1-butanonato-.kappa.O]](2-)]bis(2-methyl-1H-imidazole-.kappa.N3)-, bromide, (OC-6-33)-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cobalt(1+), [[3,3'-(1,2-ethanediyl)dinitrilo]bis[1-phenyl-1-butanonato]](2-)-N,N',O,O']bis(2-methyl-1H-imidazole-N3)-, chloride, (OC-6-33)-

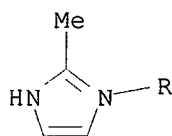
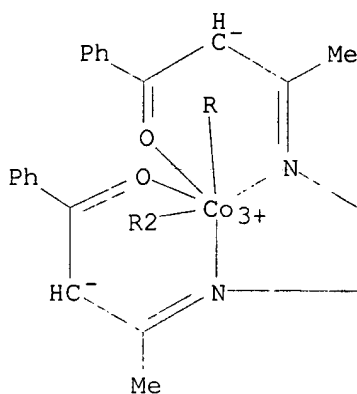
MF C30 H34 Co N6 O2 . Cl

CI CCS

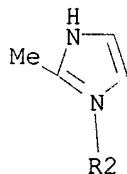
SR CA

LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

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● Cl⁻

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:332086

REFERENCE 2: 119:152069

L33 ANSWER 12 OF 14 REGISTRY COPYRIGHT 2001 ACS

RN 149754-13-2 REGISTRY

CN Cobalt(1+), [[4,4'-(1,2-ethanediyldi(nitrilo-.kappa.N)]bis[3-chloro-2-pentanonato-.kappa.O]](2-)]bis(2-methyl-1H-imidazole-.kappa.N3)-, bromide, (OC-6-33)-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cobalt(1+), [[4,4'-(1,2-ethanediyldinitrilo)bis[3-chloro-2-pentanonato]](2-)-N,N',O,O']bis(2-methyl-1H-imidazole-N3)-, bromide, (OC-6-33)-

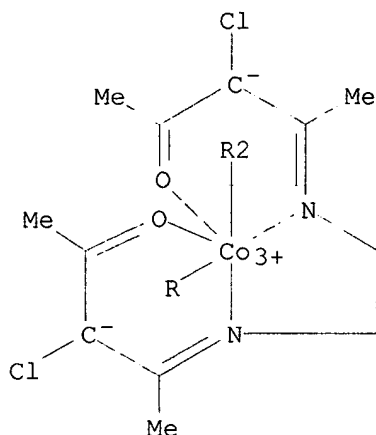
MF C20 H28 Cl2 Co N6 O2 . Br

CI CCS

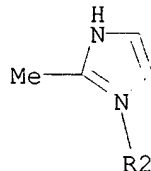
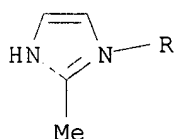
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LC STN Files: CA, CAPLUS, TOXLIT

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2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:348733

REFERENCE 2: 119:152069

L33 ANSWER 13 OF 14 REGISTRY COPYRIGHT 2001 ACS

RN 149754-12-1 REGISTRY

CN Cobalt(1+), [[3,3'-(1,2-ethanediyl)di(nitrilo-.kappa.N)]bis[1-phenyl-1-butanonato-.kappa.O]](2-)]bis(1H-imidazole-.kappa.N3)-, bromide, (OC-6-33)-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cobalt(1+), [[3,3'-(1,2-ethanediyl)dinitrilo]bis[1-phenyl-1-butanonato]](2-)-N,N',O,O']bis(1H-imidazole-N3)-, bromide, (OC-6-33)-

MF C28 H30 Co N6 O2 . Br

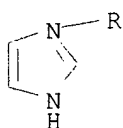
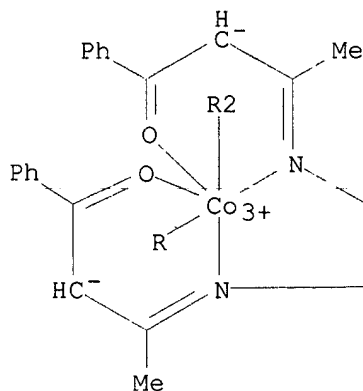
CI CCS

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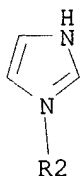
LC STN Files: CA, CAPLUS, TOXLIT

CRN (123923-83-1)

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2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:348733

REFERENCE 2: 119:152069

L33 ANSWER 14 OF 14 REGISTRY COPYRIGHT 2001 ACS

RN 149754-11-0 REGISTRY

CN Cobalt(1+), [[4,4'-[1,2-ethanediyl]di(nitrilo-.kappa.N)]bis[2-pentanonato-.kappa.O]](2-)]bis(2-methyl-1H-imidazole-.kappa.N3)-, bromide, (OC-6-33)-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cobalt(1+), [[4,4'-(1,2-ethanediyl)dinitrilo]bis[2-pentanonato]](2-)-N,N',O,O']bis(2-methyl-1H-imidazole-N3)-, bromide, (OC-6-33)-

MF C20 H30 Co N6 O2 . Br

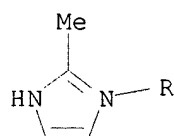
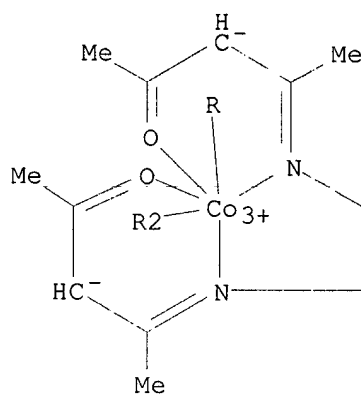
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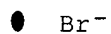
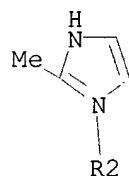
LC STN Files: CA, CAPLUS, DRUGNL, DRUGUPDATES, TOXLIT, USPATFULL

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4 REFERENCES IN FILE CA (1967 TO DATE)
5 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:332086
REFERENCE 2: 129:23421
REFERENCE 3: 126:348733
REFERENCE 4: 119:152069